

Process and target for calibration of digital Input devices

Patent Claims for

1. Process and target for calibration of digital Input devices, especially scanners and digital cameras, using a calibration picture (specified through the usage of normed, printable colors) to photograph or scan for adjustment of color values.
2. Process according to claim 1, specified through the usage of CMYK (Cyan/Magenta/Yellow/Black) colors on the calibration picture.
3. Process according to claims 1 or 2, specified through the usage of only the most important gamut colors of the CMYK color space.
4. Process according to claims 1 to 3, specified by the fact that the data achieved by the input device is transformed with a single conversion into the target color space.
5. Process according to claims 1 to 4, specified by the fact a calibration picture is used which is printed with offset-printing (sheet fed offset or rotary offset), gravure printing or screen printing.
6. Process according to claims 1 to 5, specified by the fact a calibration picture is used, with a multi- in this case tenfold repetition of the same color fields on different places on the target, following a defined pattern of repetition of the same colors, whereas the measured color data of the single color fields is averaged for the resulting color data set
7. Target for calibration of digital input devices, especially scanners and digital cameras, using a pattern of different colors, specified through the usage of normed, printable colors.

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8. Target according to claim 7, specified through the usage of CMYK (Cyan/Magenta/Yellow/Black) colors.

9. Target according to claims 7 or 8, specified through the usage of only the most important gamut colors of the CMYK color space.

10. Target according to claims 7 to 9, specified by the fact a calibration picture is used, with a multi- in this case tenfold repetition of the same color fields on different places on the target, following a defined pattern of repetition of the same colors, whereas the measured color data of the single color fields is averaged for the resulting color data set

11. Target according to claims 7 to 10, specified by the fact, that colors are printed with frequency modulated screening.

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